WHAT IS CLAIMED IS:

- 1. A vulcanizable rubber composition comprising:
- a) a rubber component selected from natural rubber, synthetic rubber, or combinations thereof;
 - b) a methylene donor; and
- c) a methylene acceptor selected from the group consisting of substituted or unsubstituted 3-hydroxydiphenylamine.
- 2. The composition of Claim 1, wherein said methylene acceptor is incorporated into said rubber component in an amount from about 1 to 25 parts by weight based on 100 parts by weight of said rubber component.
- 3. The composition of Claim 2, wherein said methylene acceptor is incorporated into said rubber component in an amount from about 1 to 5 parts by weight based on 100 parts by weight of said rubber component.
- 4. The composition of Claim 1, wherein the weight ratio of methylene acceptor to methylene donor is between about 1:10 and 10:1.
- 5. The composition of Claim 1, wherein said methylene donor is selected from the group consisting of hexamethylenetetraamine, di-, tri-, tetra-, penta-, or hexa-N-methylol-melamine, hexamethoxymethylmelamine, oxazolidine and N-methyl-1,3,5-dioxazene.
- 6. The compound of Claim 5, wherein said methylene donor is hexamethylenetetraamine and the weight ratio of methylene acceptor to methylene donor is at least 2:1.
- 7. The composition of Claim 1, further including (d) a reinforcing material.
- 8. The composition of Claim 1, further comprising one or more additives selected from the group consisting of sulfur, carbon black, zinc oxide, silica, an antioxidant, a stearate, an accelerator, an oil and an adhesion promoter.
- 9. The compound of Claim 1, wherein the methylene acceptor is unsubstituted 3-hydroxydiphenylamine.







- A method for making a rubber composition comprising the steps of mixing:
- a) a rubber component selected from natural rubber, synthetic rubber, or combinations thereof;
 - b) a methylene donor; and
- c) a methylene acceptor selected from the group consisting of substituted or unsubstituted 3-hydroxydiphenylamine.
- 11. The method of Claim 10, wherein said methylene acceptor is incorporated into said rubber component in an amount from about 1 to 25 parts by weight based on 100 parts by weight of said rubber component.
- 12. The method of Claim 11, wherein said methylene acceptor is incorporated into said rubber component in an amount from about 1 to 5 parts by weight based on 100 parts by weight of said rubber component.
- 13. The method of Claim 10, wherein the weight ratio of methylene acceptor to methylene donor is between about 1:10 and 10:1.
- 14. The method of Claim 10, wherein said methylene donor is selected from the group consisting of hexamethylenetetraamine, di-, tri-, tetra-, penta-, or hexa-N-methylolmelamine, hexamethoxymethylmelamine, oxazolidine and N-methyl-1,3,5-dioxazene.
- 15. The method of Claim 10, wherein said methylene acceptor is unsubstituted 3-hydroxydiphenylamine.